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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/621,897	07/17/2003	Joseph M. Jacobson	056754/0119588	1490	
7590 04/03/2006			EXAMINER		
Norma E. Henderson			FLETCHER III, WILLIAM P		
Hinckley, Allen & Snyder LLP					
43 North Main Street			ART UNIT	PAPER NUMBER	
Concord, NH 03301-4934			1762		

DATE MAILED: 04/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/621,897	JACOBSON ET AL.	
	Office Action Summary	Examiner	Art Unit	
		William P. Fletcher III	1762	
Pe	The MAILING DATE of this communication appriod for Reply	ears on the cover sheet with the c	orrespondence address	
	A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was pailure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirn vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
St	atus			
	1)⊠ Responsive to communication(s) filed on <u>17 Ju</u> 2a)□ This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Di	sposition of Claims			
	4) ☐ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-22 are subject to restriction and/or expressions.	wn from consideration.		
Αp	plication Papers			
	9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the objected to by the Examine Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Pr	iority under 35 U.S.C. § 119			
	12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
	achment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da		
3) [Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)	

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claim 1, drawn to a method for replicating a monolayer, classified in class 427, subclass 258.
 - II. Claims 2-11, drawn to a method for replicating a monolayer, classified in class427, subclass 256.
 - III. Claim 12, drawn to a method for assembling a multilayer film, classified in class 427, subclass 258.
 - IV. Claim 13, drawn to a method for replicating a monolayer, classified in class 427, subclass 258.
 - V. Claim 14, drawn to a method for replicating a two-dimensional patterned structure, classified in class 427, subclass 258.
 - VI. Claim 15, drawn to a method for forming a patterned layer of metal on a surface, classified in class 427, subclass 191.
 - VII. Claims 16-21, drawn to a method for replicating a multi-component pattern, classified in class 427, subclass 258.
- VIII. Claim 22, drawn to a family of molecules, classified in class 520, subclass various. The inventions are distinct, each from the other because of the following reasons:
- 2. Inventions II-VII and VIII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of

operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions are not disclosed as capable of use together and have different designs, modes of operation, and effects. Inventions II-VII are methods of coating a surface, while invention VIII is merely a discrete molecule. Consequently, the two are unrelated

- 3. Inventions I and VIII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, the product can be used in other and materially different processes: (i) a process in which the molecules are assembled and polymerized in solution, absent a substrate; or (ii) as starting/intermediate materials in further chemical synthesis.
- 4. Inventions I-VII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions are not disclosed as capable of use together and have different modes of operation and different effects. Specifically, the methods of these groups are performed differently and involve different compounds (i.e., metal particles vs. monomer units with cross-linker arms).
- 5. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

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6. Because these inventions are independent or distinct for the reasons given above and the

inventions require a different field of search (see MPEP § 808.02), restriction for examination

purposes as indicated is proper.

7. Applicant is advised that the reply to this requirement to be complete must include (i)

an election of a species or invention to be examined even though the requirement be traversed

(37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve

a right to petition, the election must be made with traverse. If the reply does not distinctly and

specifically point out supposed errors in the restriction requirement, the election shall be treated

as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not

patentably distinct, applicant should submit evidence or identify such evidence now of record

showing the inventions or species to be obvious variants or clearly admit on the record that this

is the case. In either instance, if the examiner finds one of the inventions unpatentable over the

prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the

other invention.

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention,

the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to William P. Fletcher III whose telephone number is (571) 272-1419. The examiner can normally be reached on Monday through Friday, 9 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William Phillip Detcher III Patent Examiner, USPTO

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